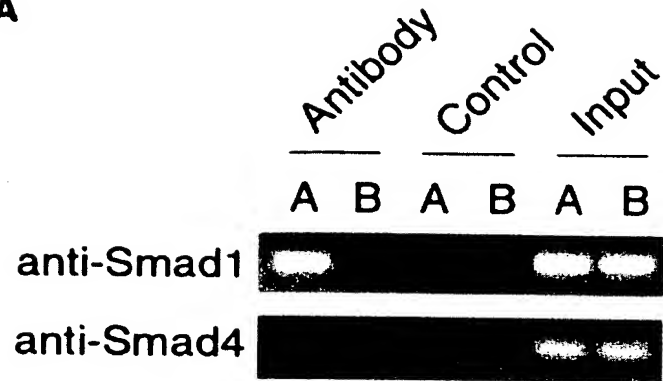
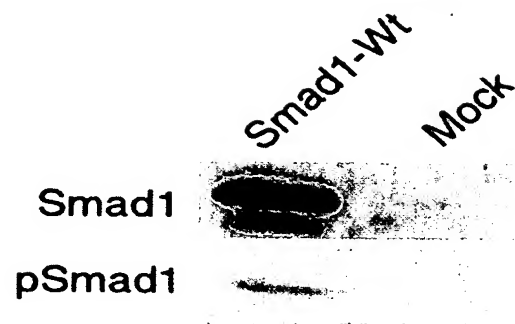


Fig. 1

**A**



**B**



**C**

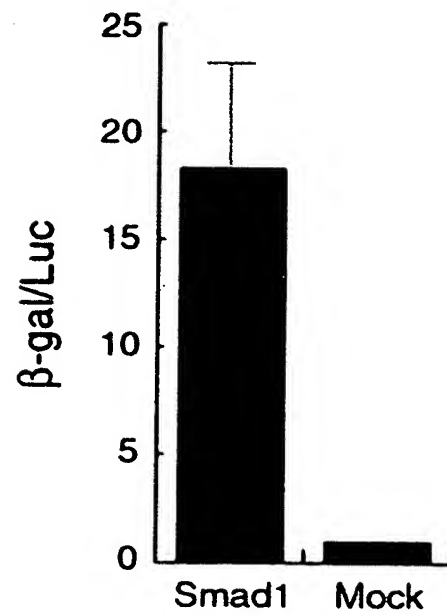


Fig. 2

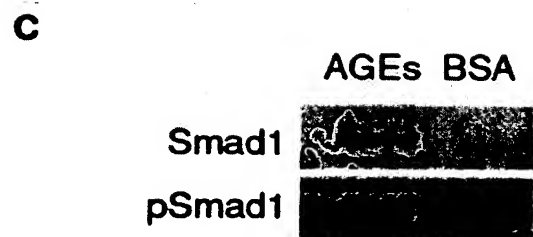
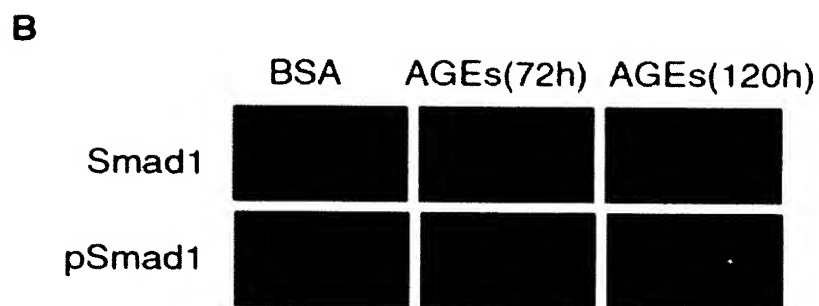
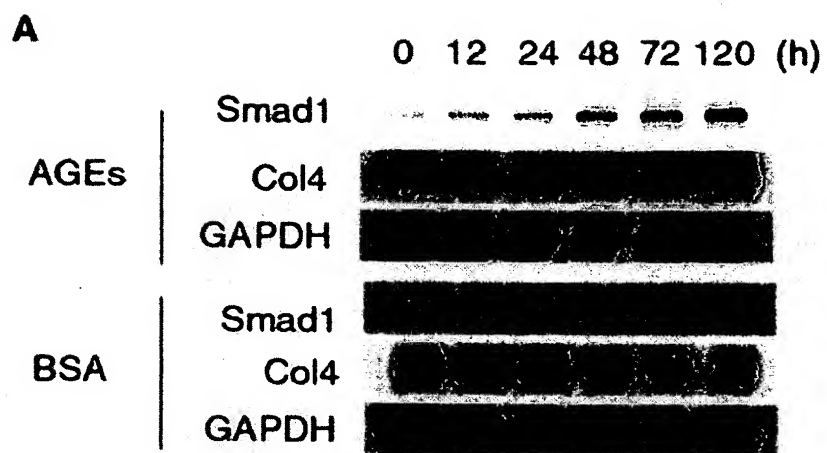
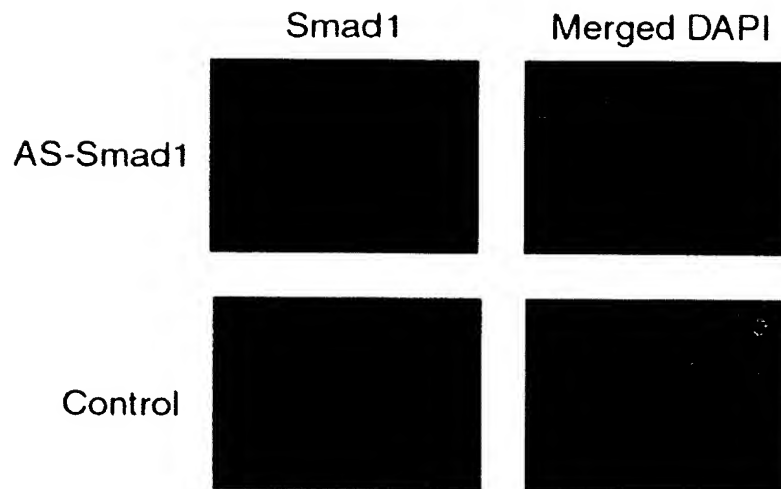


Fig. 3

**A**



**B**



**C**

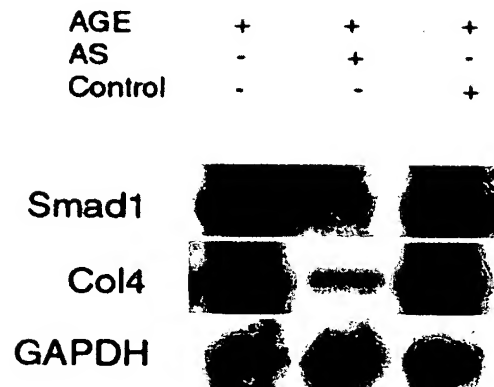


Fig. 4

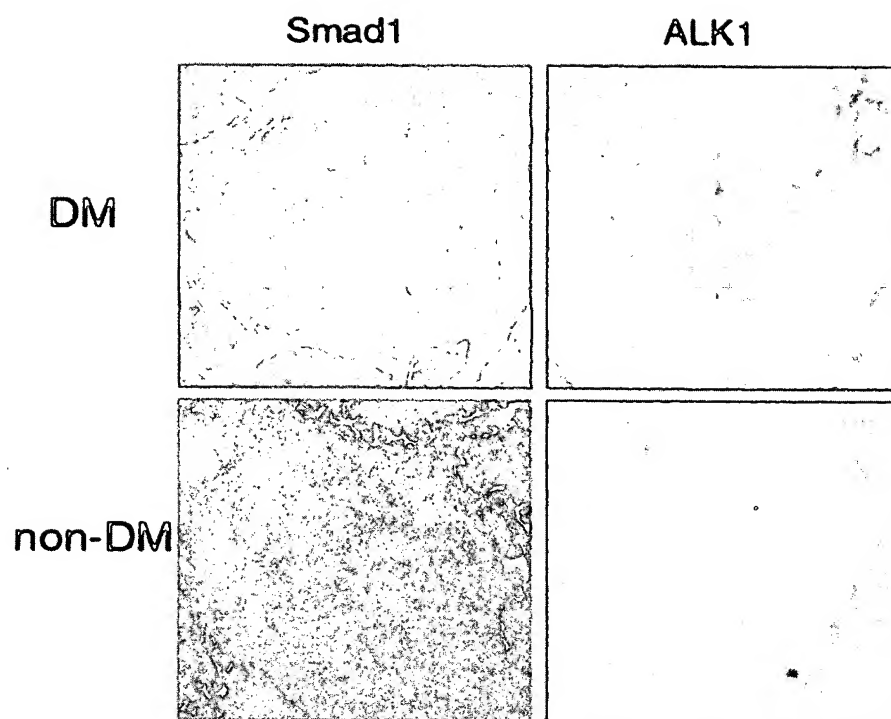


Fig. 5

# *Array analysis (AGEs stimulation on mMC)*

*AGE/BSA Ratio AGE/BSA(color swap)*

<i><b>BMP4</b></i>	21.25	2.32
<i><b>BMP1</b></i>	2.06	2.07
<i><b>SMADI</b></i>	1.27	1.22
<i><b>RAGE</b></i>	1.15	5.6
<i><b>TGFbRII</b></i>	0.49	12.1
<i><b>TGFbRI</b></i>	1.15	1.1
<i><b>ALK3</b></i>	1.18	1.3
<i><b>BMPRII</b></i>	2.06	4.74

Fig. 6

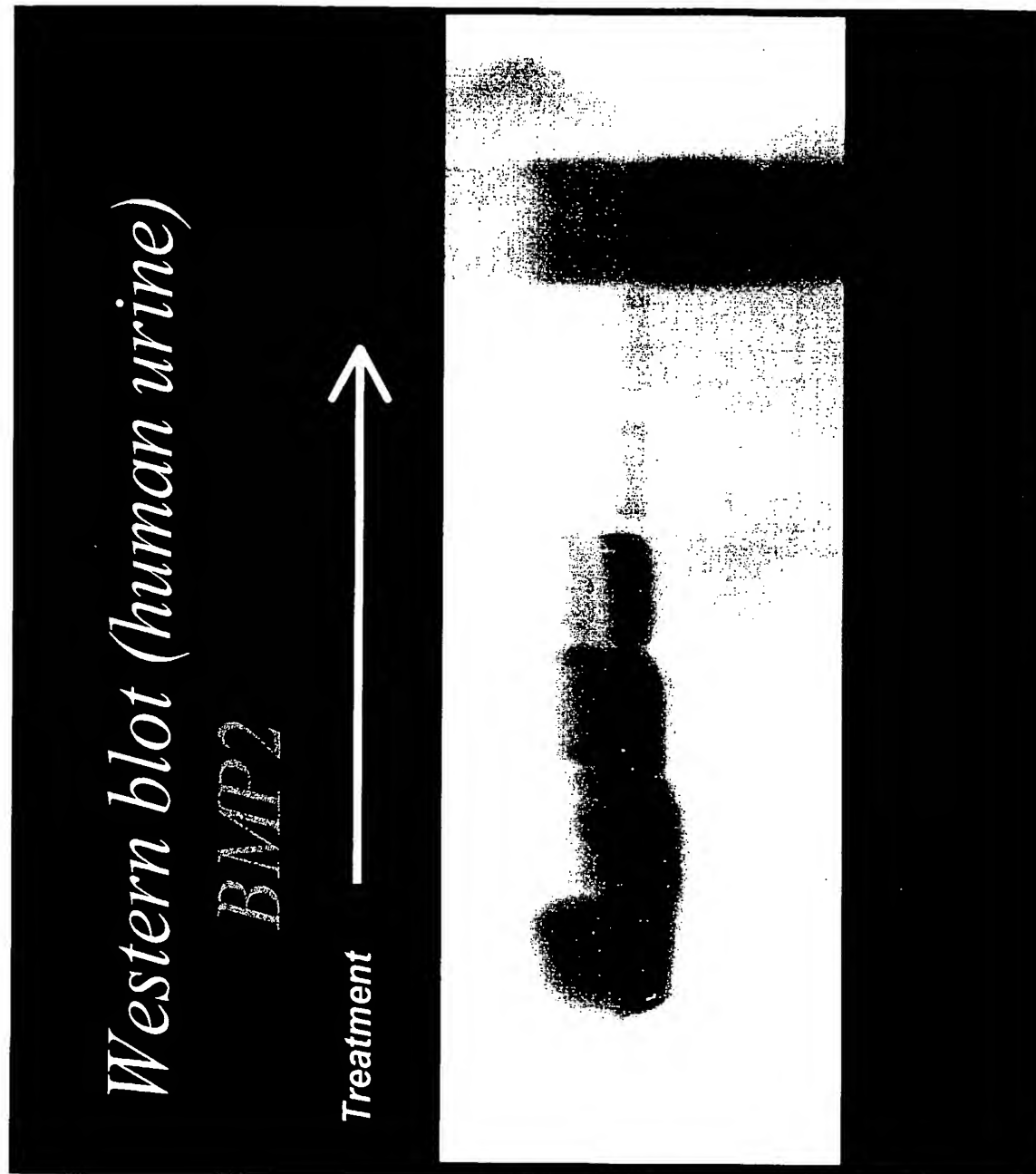


Fig. 7

# Western blot (TGF $\beta$ time course)

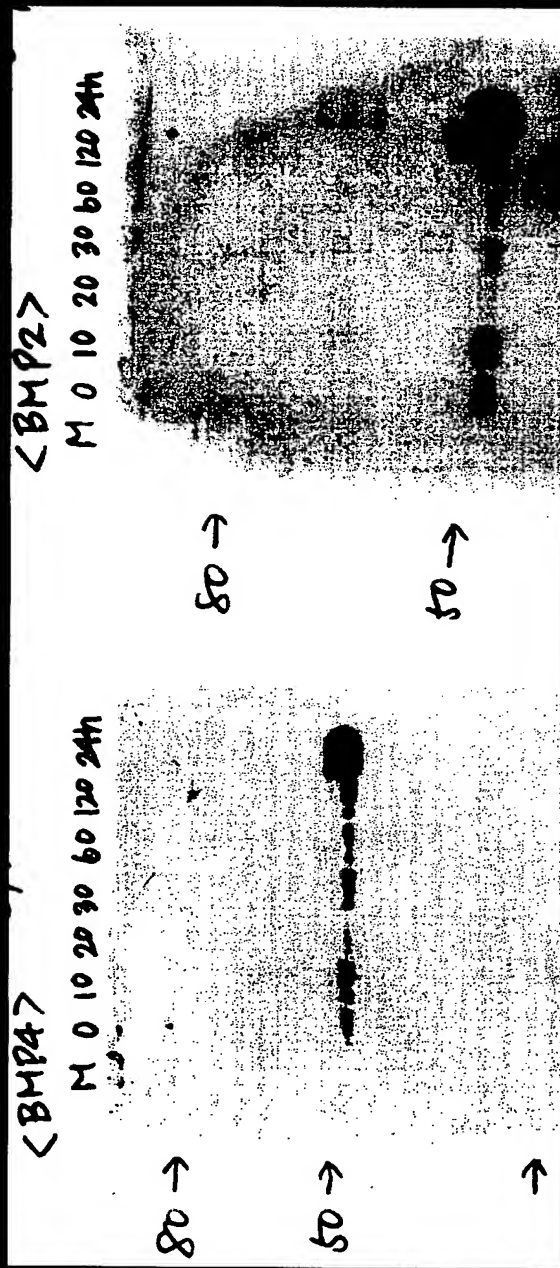


Fig. 8

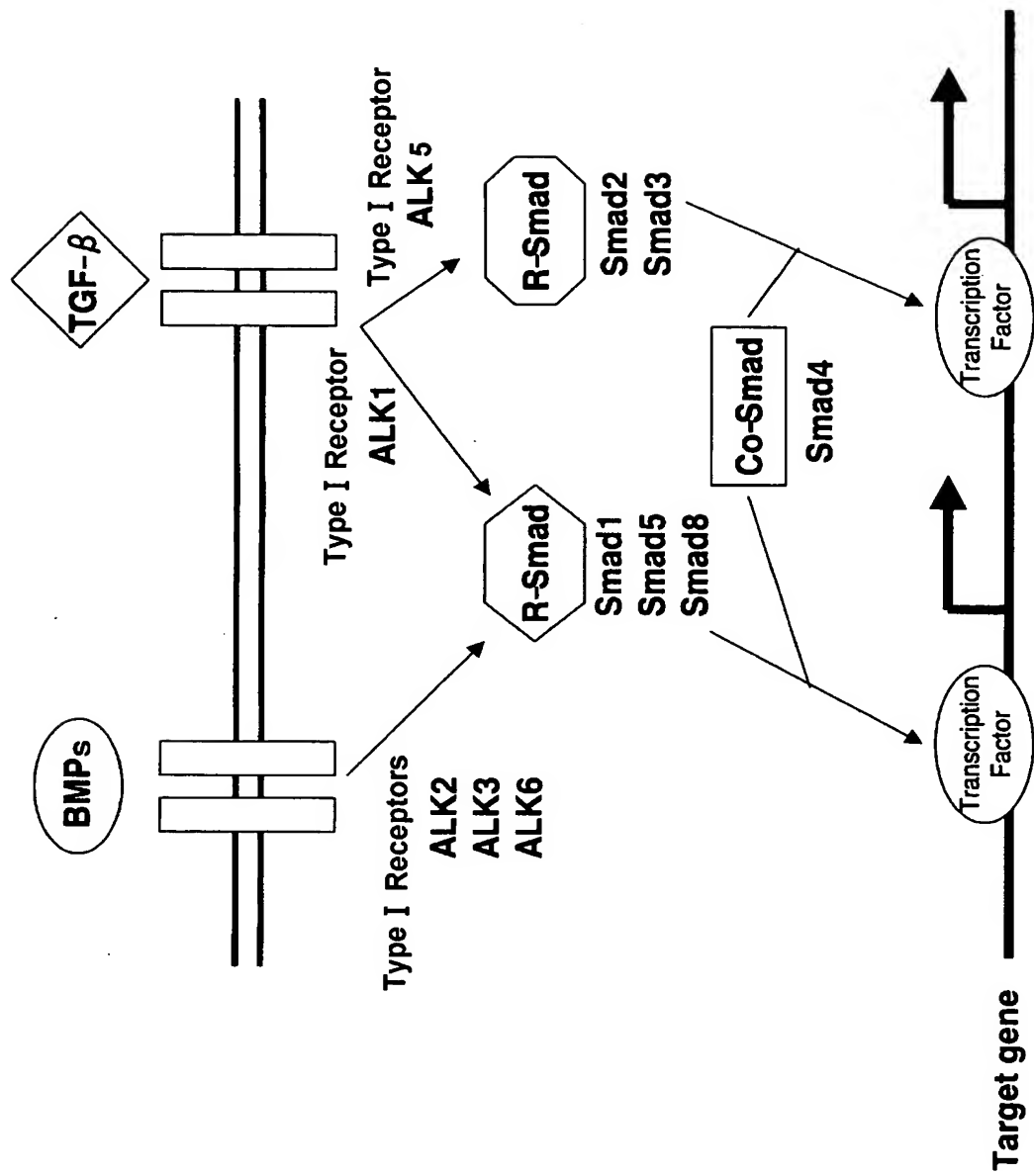




Fig. 9

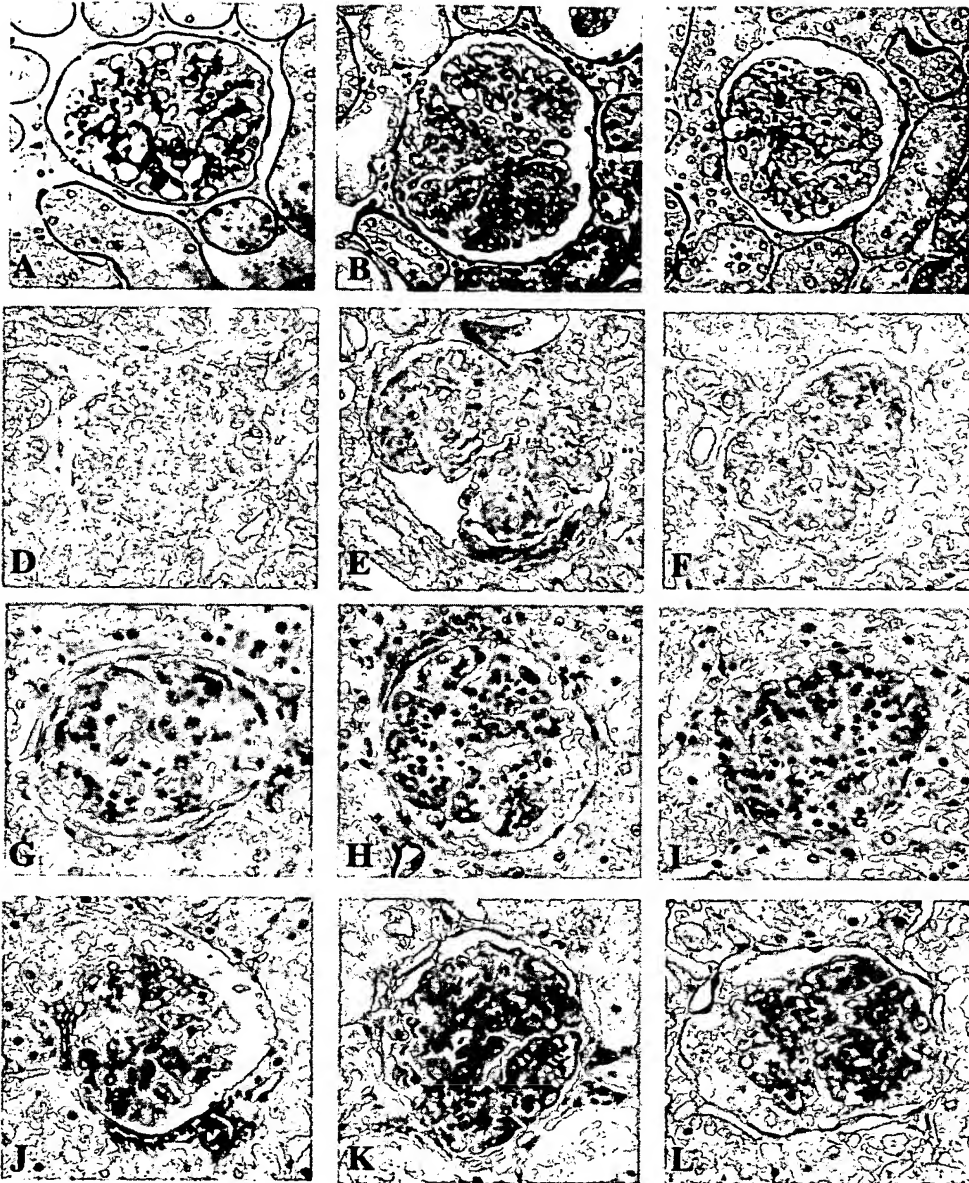


Fig. 10

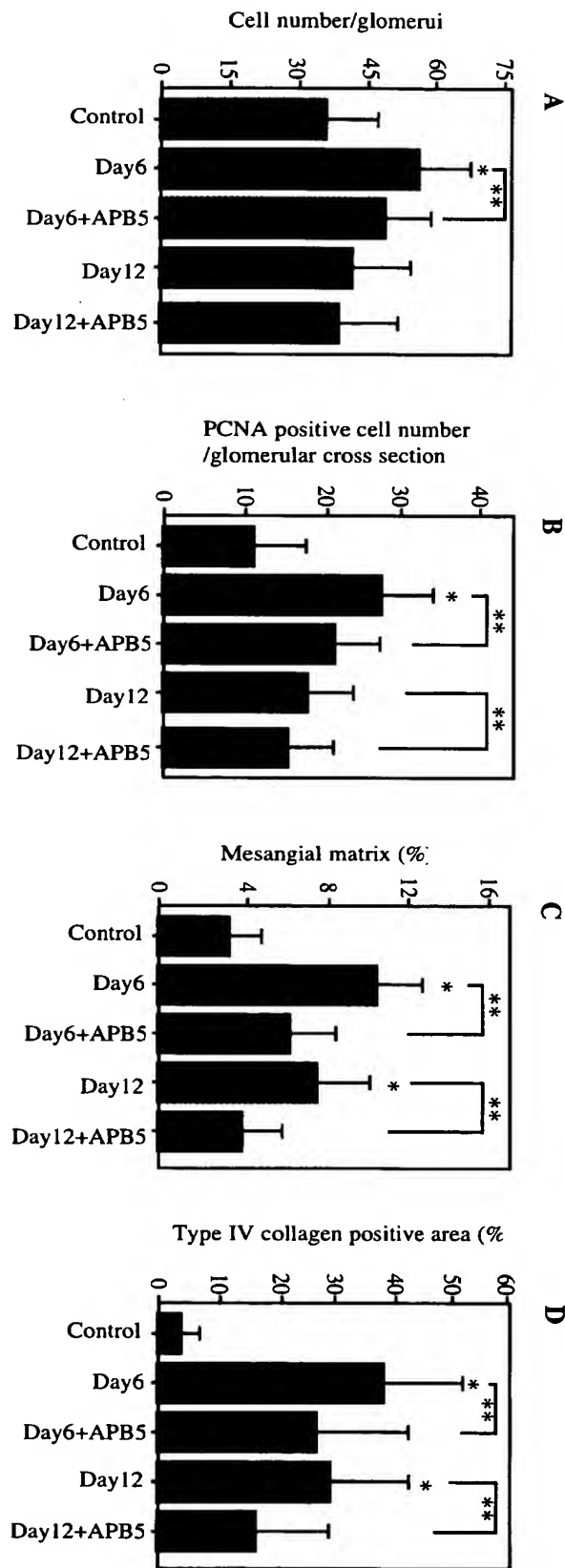


Fig. 11

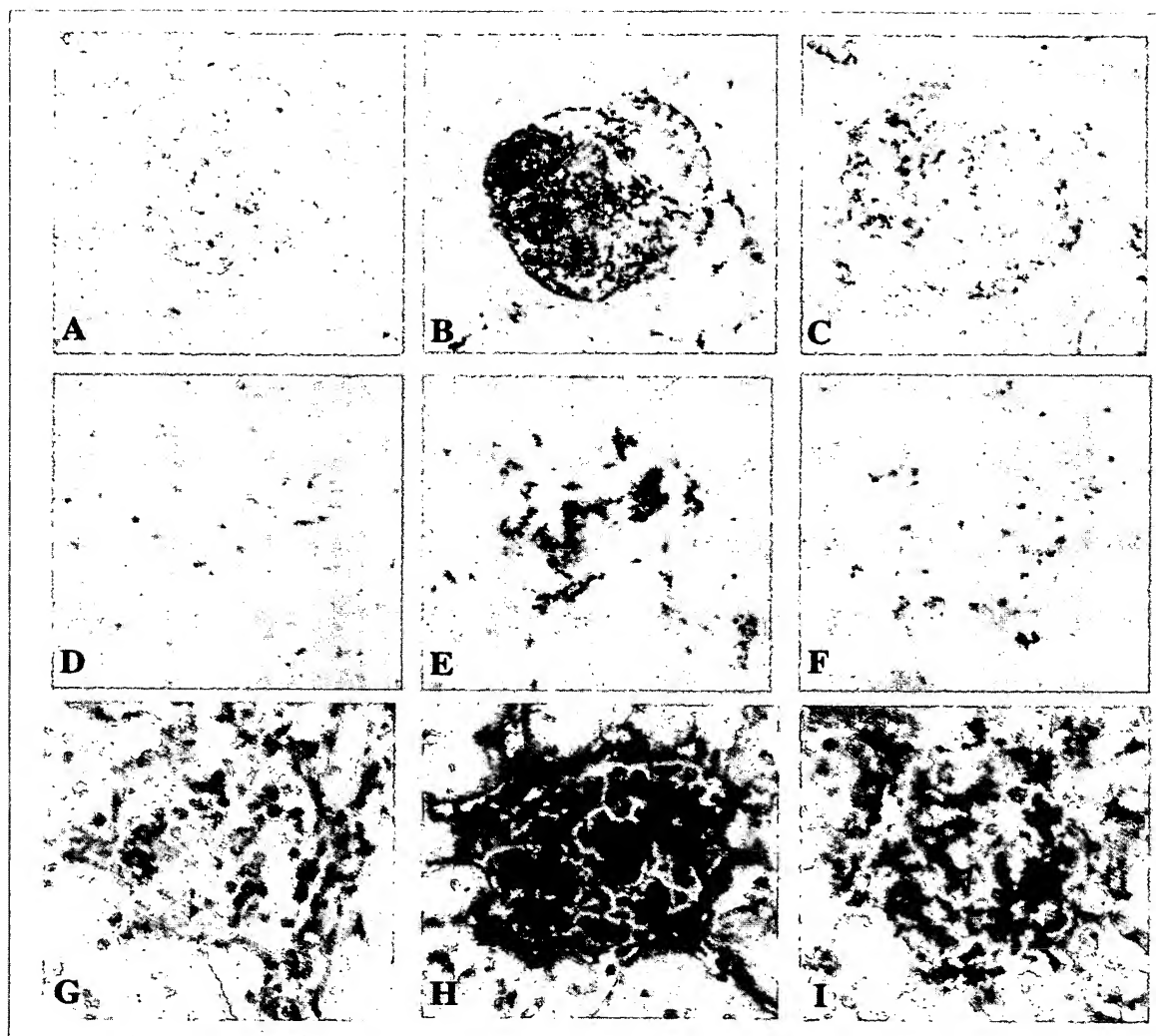


Fig. 12

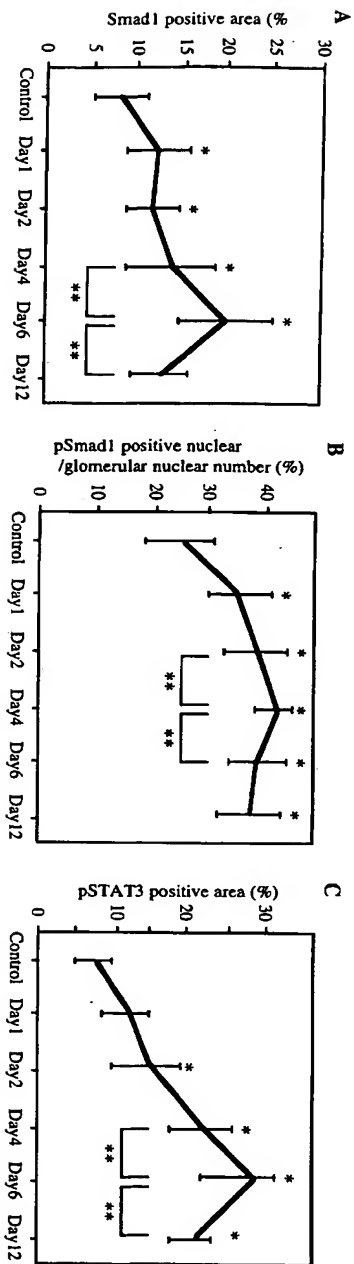


Fig. 13

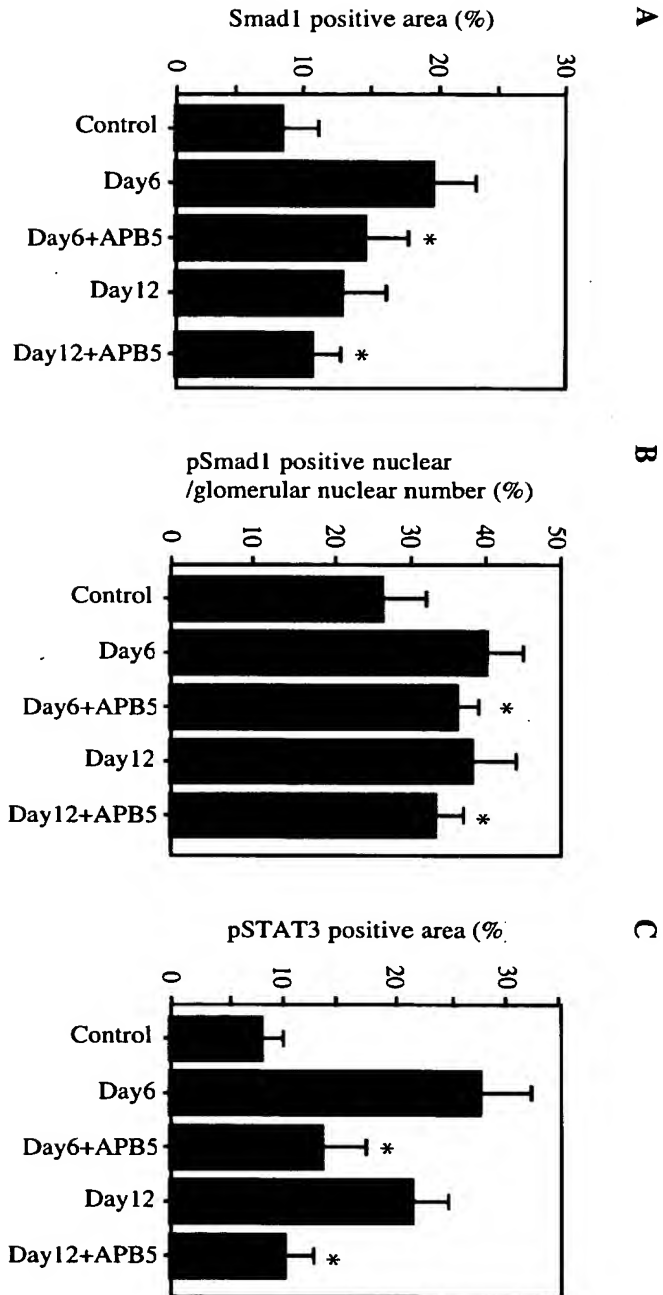


Fig. 14

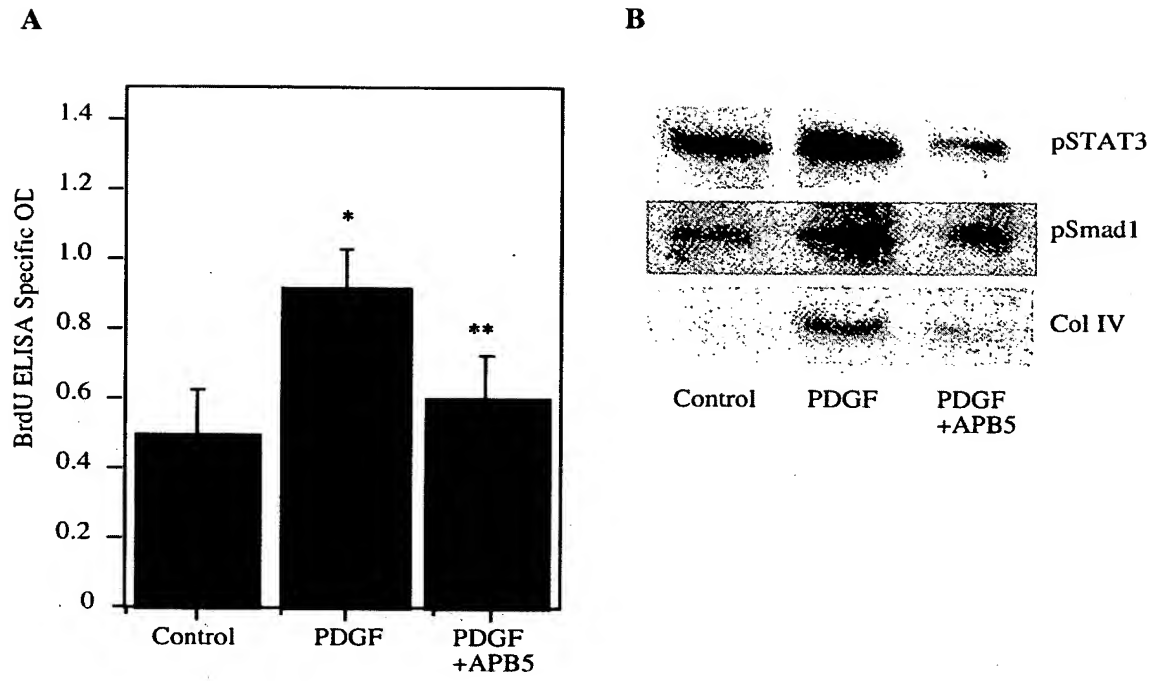


Fig. 15

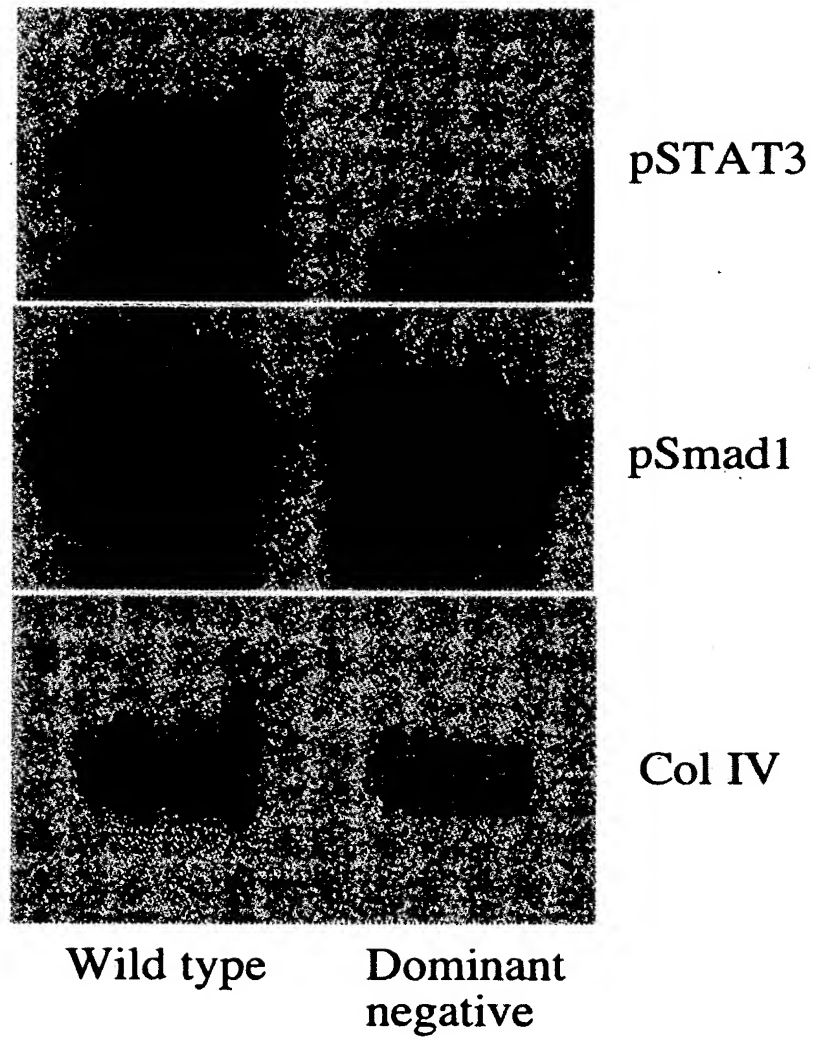


Fig. 16

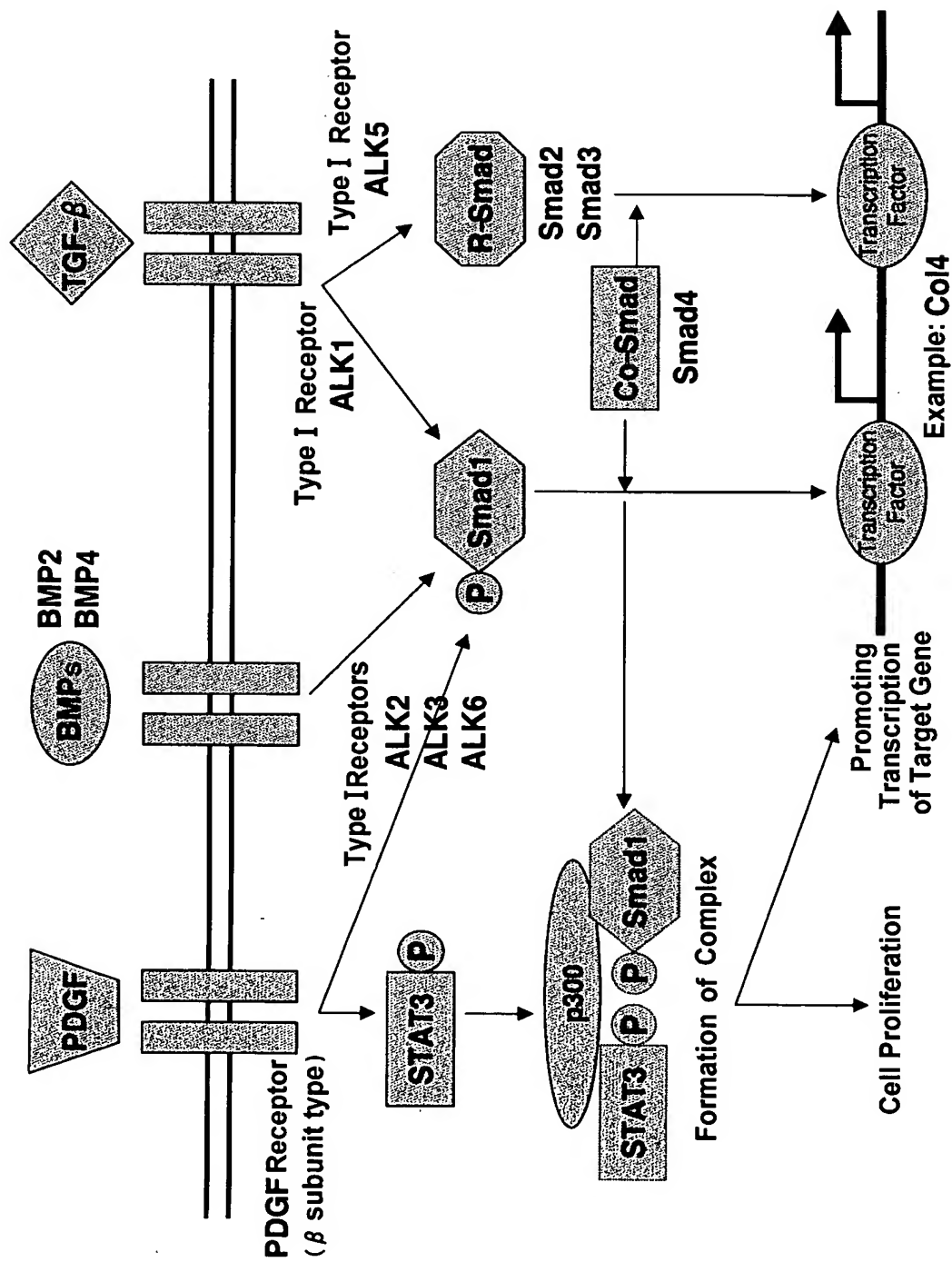
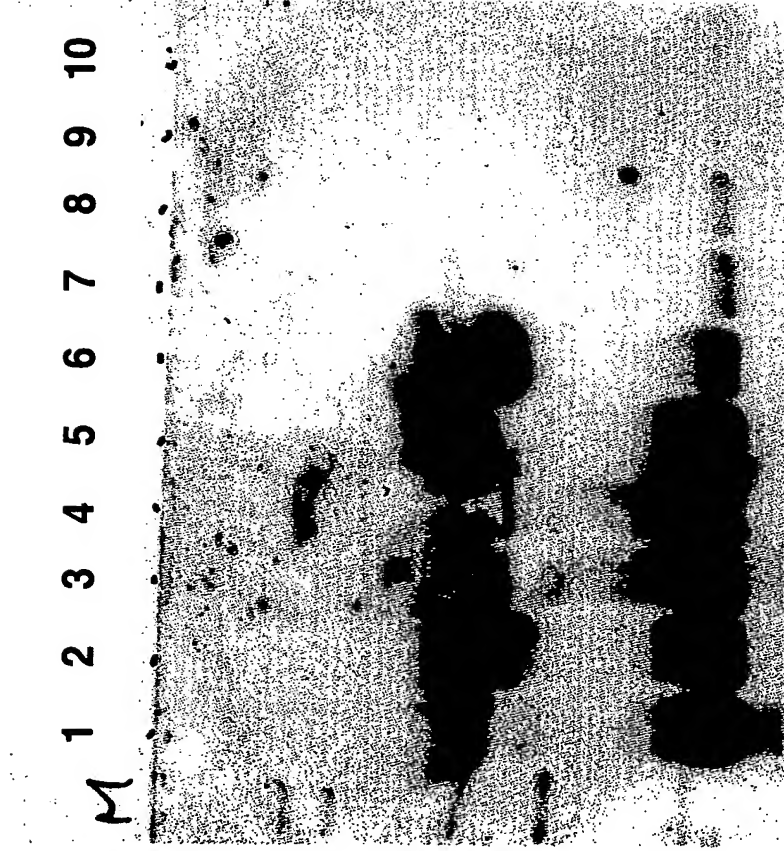




Fig. 17

# Western blot (human urine ALK-1)



Lanes 1-5: diabetic nephropathy

Lane 6: mitochondrial disease in which diabetes is complicated with sclerosing, renal proliferative disease

Lanes 7-8: diabetes + nephritis (without sclerosis)

Lanes 9-1: normal

Fig. 18

# Western blot (human urine ALK-1)

Treatment

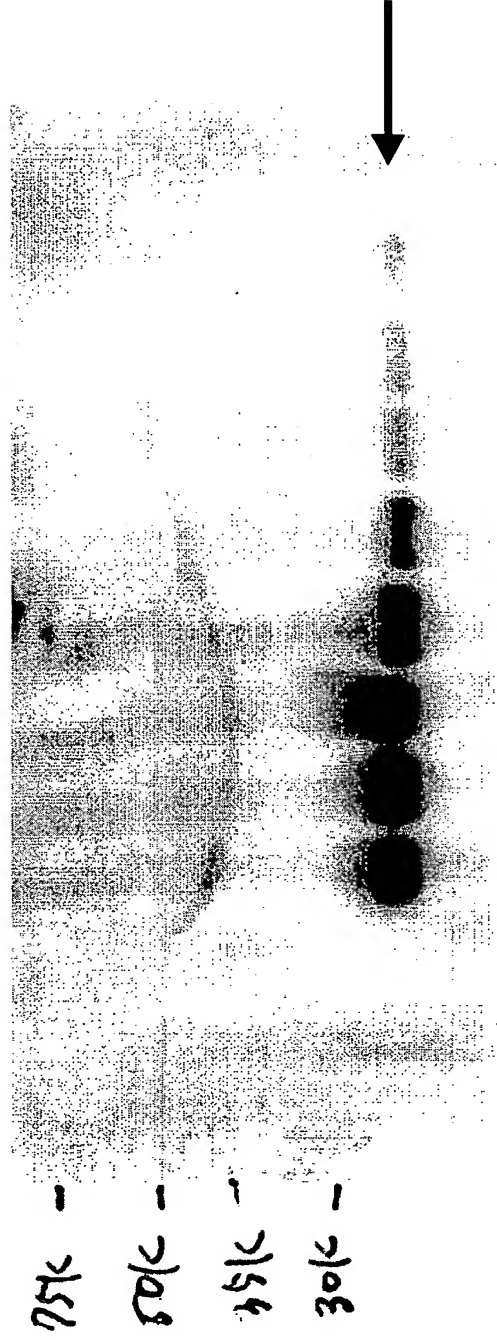
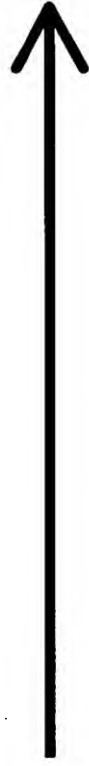
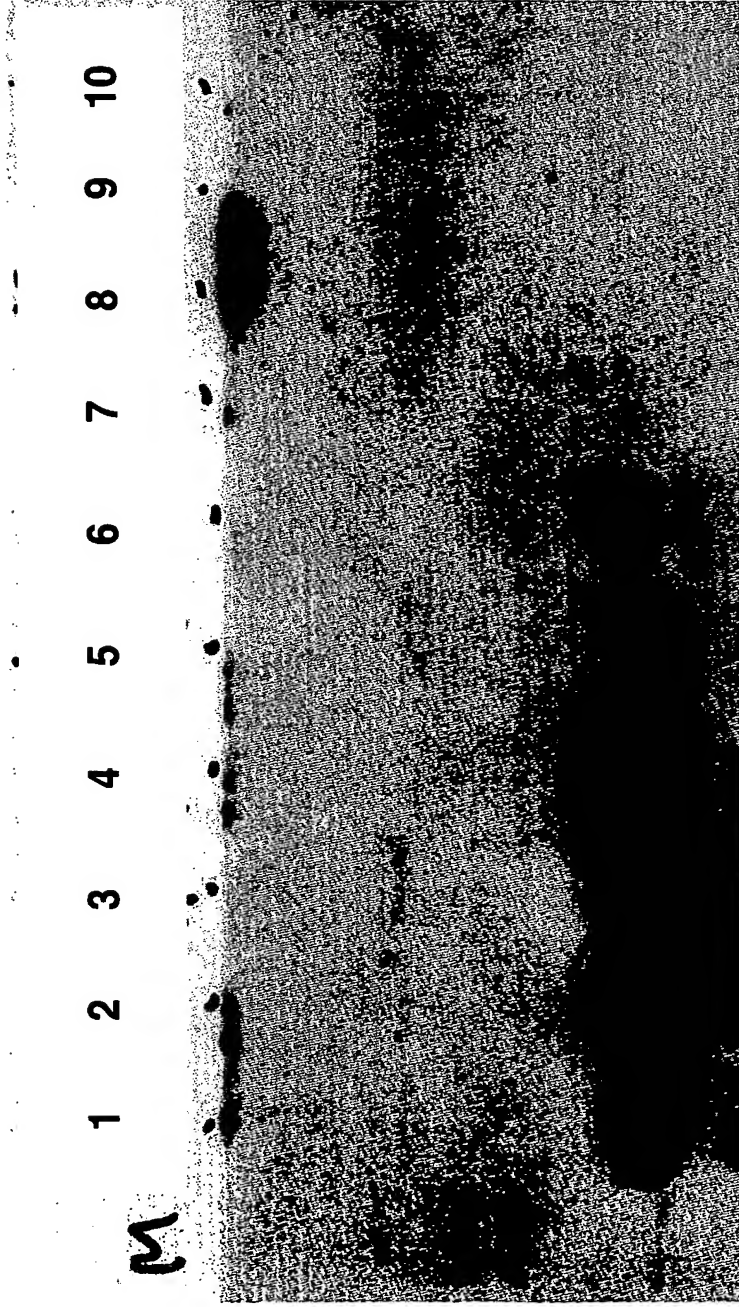


Fig. 19

# Western blot (human urine Smad1)



Lanes 1-5: diabetic nephropathy

Lane 6: mitochondrial disease in which diabetes is complicated with sclerosing, renal proliferative disease

Lanes 7-8: diabetes + nephritis (without sclerosis)

Lanes 9-10: normal